

Stepan

Stepan Chemical Company

FLB 19 1982

Northfield, Illinois 6009
Telephone 312 446 7500

12/4/79

Product Data Sheet

DMS 1956

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Date of Prep.: July 11, 1979

Section I

Product: STEPANFOAM F-506-T

Product Class: Toluene Diisocyanate
based Prepolymer

Manufacturer's Name: Stepan Chemical Company

Edens & Winnetka

Address: Northfield, IL 60093

Emergency Telephone No.: 312/446-7500

Section II - Hazardous Ingredients

Ingredient	Percent	TLV		LEL	Vapor Pressure.
		PPM	mg/m ³		
Toluene diisocyanate Polyoxy propylene glycol- Toluene diisocyanate prepolymer.		0.02	0.14	about 0.9%	Less 0.1 mm of Hg at 70°F. or 20°C.

Section III - Physical Data

Boiling Point: over 400°F. or 200°C.

Vapor Density ☒ Heavier ☐ Lighter than airEvaporation Rate: ☐ Faster than Ether
☒ Slower

% Volatile

by wt.: Nil

Wt. per about 9.5
Gal.: lbs.

Section IV - Fire & Explosion Hazard Data

DOT Category: Non-regulated

Flash Point: over 230°F. PMCC LEL: about 0.9%
or 110°C.

IATA: Non-regulated

Extinguishing Media:

Carbon dioxide, dry chemical, foam or sand. Water fog may be used with caution.
Class BC or ABC fire extinguishers.

Unusual Fire and Explosion Hazards:

May react violently with water. Smoke and fumes may be hazardous.

Special Fire Fighting Procedures: Use self-contained breathing apparatus for smoke or fumes.

Water may be used to cool drums if not leaking or ruptured.

Section V - Health Hazard Data

Threshold Limit Value:

0.02 ppm for Toluene 2, 4-diisocyanate. Federal Register, Vo. 37
No. 202, p. 22141/

Effects of Overexposure: Contact with eyes will be painful or irritating. Contact with skin may cause irritation. Fumes are irritating to mucous membranes and can cause coughing, headache or shortness of breath and may lead to allergic sensitivity.

Emergency and First Aid Procedures:

Flush eyes thoroughly with plenty of water, 10-15 minutes.
Wash off skin with soap and water. If fumes cause distress, remove to fresh air. Give oxygen if necessary. If any symptoms persist, consult a physician.

Section VI - Reactivity Data

Stability: ☐ Unstable ☒ Stable

Conditions to Avoid:

Incompatibility (Materials to Avoid): Avoid water, alcohols, alkali metal compounds.

Hazardous Decomposition Products: If burned, carbon dioxide, carbon monoxide, cyanides, ammonia and smoke may be formed.

Hazardous Polymerization: ☐ May Occur ☒ Will Not Occur

Conditions to Avoid:

May react violently with water.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Soak up spills with sand or inert material and treat with water containing about 1% ammonia. Shovel into waste containers.

Waste Disposal Method: Bury or incinerate in accordance with all legal regulations. Do not flush to sewer with water as the solids that form will plug sewer.

Section VIII - Special Protection Information

Respiratory Protection:

Use a NIOSH or MESA approved gas mask suitable for organic vapors, or a mask with an external air source, or a self-contained breathing apparatus.

Ventilation:

Provide adequate ventilation to keep vapor concentration below TLV of 0.02 ppm and LEL of 0.9%.

Protective Gloves: Use chemically resistant rubber or plastic gloves.

Eye Protection: Use face mask or goggles.

Other Protective Equipment: Wear coveralls or rubber aprons.

Section IX - Special Precautions

Precautions to be taken in handling and storing:

Store in a dry, well-ventilated area at about 70-85°F. or 20-30°C.

Do not pour into drains, as solids that form will plug sewers. Spills and wastes should be reacted with 1% aqueous ammonia before disposal.

Other Precautions: